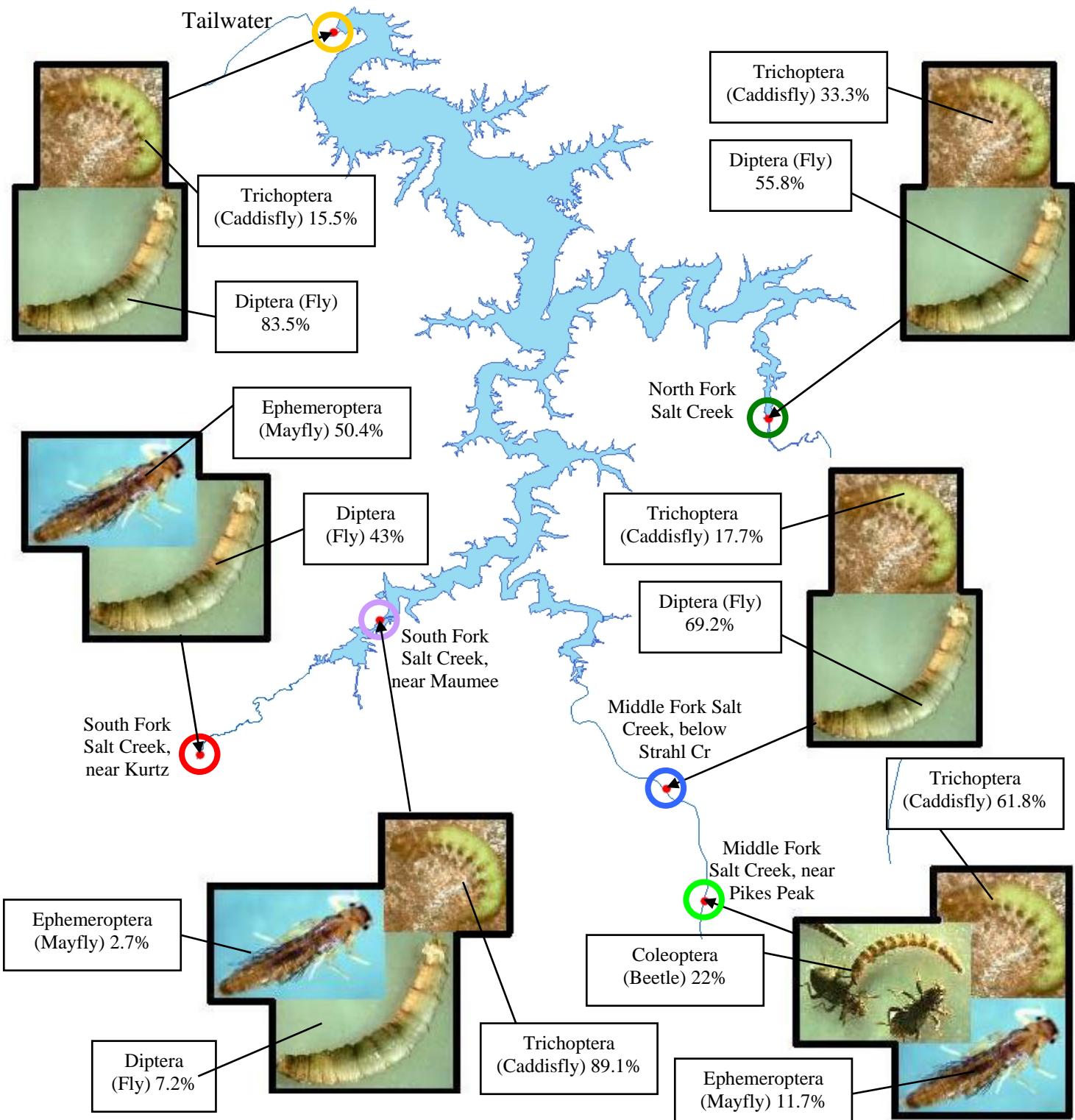


Aquatic Insects' Community Structure
Monroe Lake Analysis
August 18-19, 2004

Relative abundance of dominant taxa found at each of the sites shown below.



Community Metrics *	Monroe Lake					
	Tailwater	North Fork	Maumee	Kurtz	Strahl Creek	Pikes Peak
Collection Date	8/19/04	8/18/04	8/19/04	8/19/04	8/19/04	8/19/04
Total Number of Taxa	20	21	35	25	31	27
% Contribution of Dominant Taxa	79	92	95	71	67	89
Modified Hilsenhoff Biotic Index (0, good – 10, bad)	5.92	4.42	4.21	5.38	5.52	3.49
Shannon-Wiener Index	2.01	1.06	2.30	2.51	2.47	1.65
Number of Ephemeroptera Taxa	1	3	5	4	5	5
% Ephemeroptera Taxa (Abundance)	0	1	3	48	6	11
Number of Plecoptera Taxa	0	0	0	0	2	2
% Plecoptera Taxa (Abundance)	0	0	0	0	1	1
Number of Trichoptera Taxa	3	1	2	2	2	6
% Trichoptera Taxa (Abundance)	13	7	88	4	17	60
Number of EPT Taxa	4	4	7	6	9	13
% EPT Taxa	20	19	20	24	29	48
Number of Dipteran Taxa	11	10	17	13	14	11
% Dipteran Taxa	70	11	7	41	67	4
Number of Chironomid Taxa	7	10	15	12	11	8
% Chironomid Taxa	63	11	5	40	64	3
Number of Tanytarsini Taxa	1	3	3	2	3	2
% Tanytarsini Taxa	3	3	1	15	46	0
Number of Orthocladiinae Taxa	3	2	3	3	2	3
% Orthocladiinae Taxa	55	0	0	2	4	1
% Cricotopus + Chironomus/Total Chiron.	86	1	1	2	0	6
Number of Dipteran Taxa – Tanytarsini and other Non-Insect Taxa	14	11	19	14	15	10
% Dipteran Taxa - Tanytarsini and other Non-Insect Taxa	83	89	7	31	24	6
Ratio of EPT to Chiron. Abundance	0	1	17	1	0	21
Percent Tolerant Organisms	0	0	0	5	2	0
Numbers of Individuals / m ²	2,200	1,773	8,738	386	3,381	4,095

* Based on 4 replicate surber samples

Substrate sampled – small stones

5 Most Abundant Taxa at the Tailwater

1. Cricotopus/Orthocladius sp. (Diptera) 49.8%
2. Cricotopus (Cricotopus) sp. (Diptera) 14.6%
3. Cheumatopsyche sp. (Trichoptera) 14.5%
4. Parachironomus sp. (Diptera) 5.9%
5. Simulium sp. (Diptera) 5.1%

5 Most Abundant Taxa on North Fork Salt Cr

1. Cheumatopsyche sp. (Trichoptera) 33.3%
2. Polypedilum scalaenum group sp. (Diptera) 22.5%
3. Thienemannimyia group sp. (Diptera) 8.5%
4. Rheotanytarsus exiguus group sp. (Diptera) 7.8%
5. Microtendipes pedellus group sp. (Diptera) 3.9%
5. Polypedilum flavum (Diptera) 3.9%

5 Most Abundant Taxa on South Fork Salt Cr, near Maumee

1. Cheumatopsyche sp. (Trichoptera) 89.1%
2. Thienemannimyia group sp. (Diptera) 2%
3. Simulium sp. (Diptera) 1.8%
4. Stenacron interpunctatum (Ephemeroptera) 1.5%
5. Rheotanytarsus exiguus group sp. (Diptera) 1.3%

5 Most Abundant Taxa on South Fork Salt Cr, near Kurtz

1. Stenonema femoratum (Ephemeroptera) 23.7%
2. Stenacron interpunctatum (Ephemeroptera) 21.5%
3. Tanytarsus sp. (Diptera) 14.1%
4. Microtendipes pedellus group sp. (Diptera) 8.1%
5. Pseudochironomus sp. (Diptera) 7.4%

5 Most Abundant Taxa on Middle Fork Salt Cr, below Strahl Cr

1. Tanytarsus sp. (Diptera) 37.2%
2. Cheumatopsyche sp. (Trichoptera) 11.9%
3. Rheotanytarsus exiguus group sp. (Diptera) 7.5%
4. Polypedilum flavum (Diptera) 7.1%
5. Chimarra obscura (Trichoptera) 5.8%

5 Most Abundant Taxa on Middle Fork Salt Cr, near Pikes Peak

1. Chimarra obscura (Trichoptera) 53.8%
2. Psephenus herricki (Coleoptera) 21.5%
3. Baetis intercalaris (Ephemeroptera) 7.2%
4. Cheumatopsyche sp. (Trichoptera) 5.8%
5. Isonychia sp. (Ephemeroptera) 2.5%